

TORQUE TUBE CONVERSION KIT FOR MINI TITAN E325

INSTRUCTION MANUAL

Introduction

Thank you for purchasing the Thunder Tiger Torque Tube Conversion KIT for the mini Titan E325! An all-in-one Torque Tube and Carbon Shaft KIT for unbelievable crisp rudder response and 100% power transfer. Be all you can be, and throw any mad 3D maneuvers at the mini Titan E325.

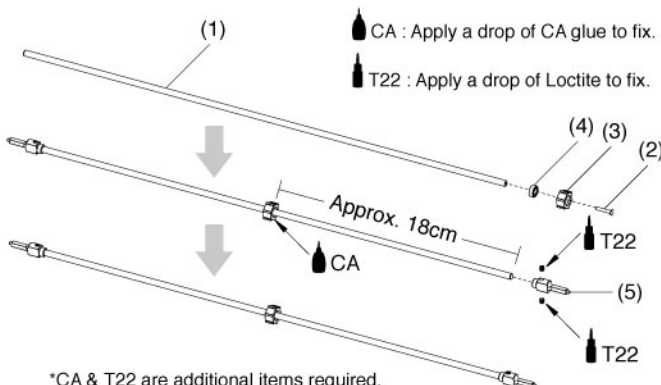
Assembly

Step1 Tail Drive Shaft

Pack No. A

No	Item No.	Description	Qty
1	BK1577	CARBON FIBER ROD d2*D4*359L	1
2	BK1584	T PIN d2*12	2
3	BK1578	SHOCK-AXIS RUBBER WASHER d8*D11*6	1
4	HMV840ZZY	BEARING (d4*D8*W3)	1
5	BK1569	TORQUE TUBE JOINT	2
6	HME3-3B	SET SCREW M3*3	4

1. Slip the SHOCK-AXIS RUBBER WASHER (#3) & BEARING (#4) onto the CARBON FIBER ROD, then insert the T PINs to both tips of the rod.
2. Glue the BEARING (#4) on the rod at approximately 18cm from either end.



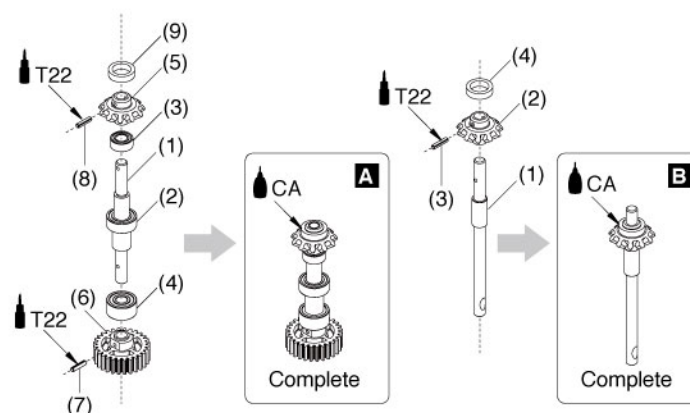
*CA & T22 are additional items required.

Step2 Tail Drive Gear Set/Tail Rotor Shaft Set

Pack No. B

Step	No	Item No.	Description	Qty
A	1	BK1568	TAIL DRIVE SHAFT, E325	1
	2	HMV840ZZY	BEARING(d4*D8*W3)	1
	3	HMV630ZZY	BEARING (d3*D6*W2.5)	1
	4	HMV830ZZY	BEARING (d3*D8*W4)	1
	5	BK1566	BEVEL GEAR 11T, E325	1
	6	BK1007	TAIL DRIVE GEAR 28T, E325	1
	7	HMU1-5B	SPRING SALES M1*5	1
	8	HMY1-5	PIN d1*5	1
B	9	BK1573	FLANGE RINGS, E325	1
	1	BK1576	TAIL ROTOR SHAFT, E325	1
	2	BK1566	BEVEL GEAR 11T, E325	1
	3	HMY1-5	PIN d1*5	1
	4	BK1573	FLANGE RINGS, E325	1

These two sets are factory pre-assembled by Thunder Tiger. Re-assemble according to the drawing as follows if necessary.

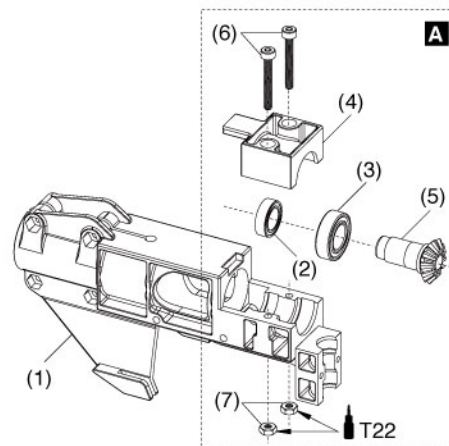


Step3 Tail Drive Unit

Pack No. C

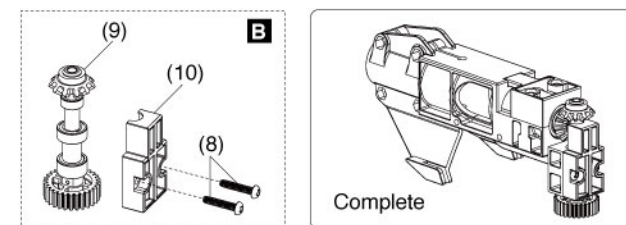
Step	No.	Item No.	Description	Qty
A	1	BK1570	TAIL BOOM BRACKET, E325	1
	2	HMV1060ZZY	BEARING d6*D10*W3	1
	3	HMV1370ZZY	BEARING d7*D13*W4	1
	4	BK1572	BEARING BRACKET	1
	5	BK1567	BEVEL GEAR 11T, E325	1
	6	HMC2-16B	SOCKET SCREW M2*16	2
	7	HML2	NUT M2	2
	8	HNN2-10B	TAPPING SCREW M2x10L	2

1. Slip the BEARINGS (#2, #3) onto BEVEL GEAR then fit to TAIL BOOM BRACKET.
2. Secure but not over tighten the BEARING BRACKET to the Tail Boom Bracket. Ensure the BEVEL GEAR can be rotated smoothly.



Pack No. C				
Step	No.	Item No.	Description	Qty
B	9	BV1568	TAIL DRIVE GEAR SET, E325	1
	10	BK1571	FRONT BEARING BRACKET	1

1. Fit the TAIL DRIVE GEAR SET to TAIL BOOM BRACKET.
2. Secure but not over tighten the FRONT BEARING BRACKET to the Tail Boom Bracket. Ensure the TAIL DRIVE GEAR SET can be rotated smoothly.

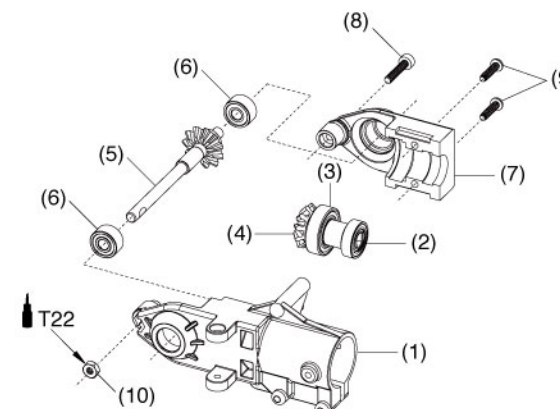


Step4 Tail Transmission Unit

Pack No. C

No.	Item No.	Description	Qty
1	BK1574	TAIL UNIT CASE SET, E325	1
2	HMV1060ZZY	BEARING d6*D10*W3	1
3	HMV1370ZZY	BEARING d7*D13*W4	1
4	BK1567	BEVEL GEAR 11T, E325	1
5	BV1576	TAIL ROTOR SHAFT, E325	1
6	HMV830ZZY	BEARING d3*D8*W4	2
7	BK1575	SIDE COVER, E325	1
8	HMC2-10B	SOCKET SCREW M2*10	1
9	HMJ2-10N	TAPPING SCREW M2x10L	2
10	HML2	NUT M2	1

1. Slip the BEARINGS (#2 & #3) onto the BEVEL GEAR.
2. Install the two BEARINGS (#6) into TAIL ROTOR SHAFT.
3. Fit the Drive Gear Set into the TAIL UNIT CASE SET then secure the SIDE COVER as shown.



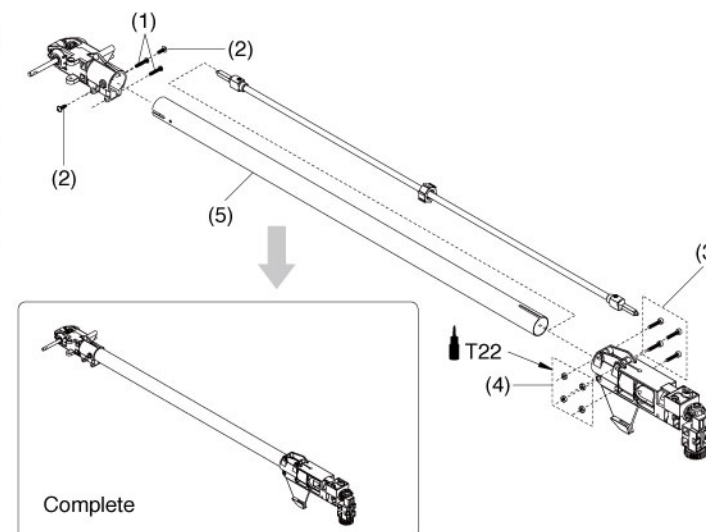
Step5 Tail Unit

Pack No. C

No	Item No.	Description	Qty
1	HNN2-10B	TAPPING SCREW M2x10L	2
2	HNN2-6B	TAPPING SCREW M2x6L	2
3	HMC2-10B	SOCKET SCREW M2*10	4
4	HML2	NUT M2	4
5	BK1004-1	TAIL BOOM 356*φ14	1

1. Slip the Tail Drive Shaft gently into the TAIL BOOM. (CAUTION: Over-stressing may damage the Tail Drive Shaft.)
2. Connect the TORQUE TUBE JOINT into the Bevel Gears of the Tail Drive Unit & the Tail Transmission Unit. Ensure they are assembled properly and match the holes on to the tail boom.
3. Refer to your E325 manual to assemble the Tail Rotor Set and slide the Tail Unit into the Main Frame of your E325.

Note: We strongly recommend to recheck/readjust upon completing assembly of the conversion kit.



Spare Parts

PV1151 TAIL BOOM BRACKET	PV1152 BEVEL GEAR 11T	PV1153 TAIL DRIVE GEAR SET	PV1154 TORQUE TUBE END	PV1155 DRIVE SHAFT ROD d2*D4*359
PV1156 TAIL BOOM 356*φ14,E325	PV1157 SHAFT DAMPER d8*D11*6	PV1158 TAIL UNIT CASE SET	PV1159 TAIL ROTOR SHAFT	PV1160 BEARING d7*D13*W4
PV1161 BEARING d6*D10*W3	PV1162 BEARING d4*D8*W3	PV1163 BEARING d3*D8*W4	PV1164 T PIN d2*12	

